

# EUROPEAN PATENT OFFICE

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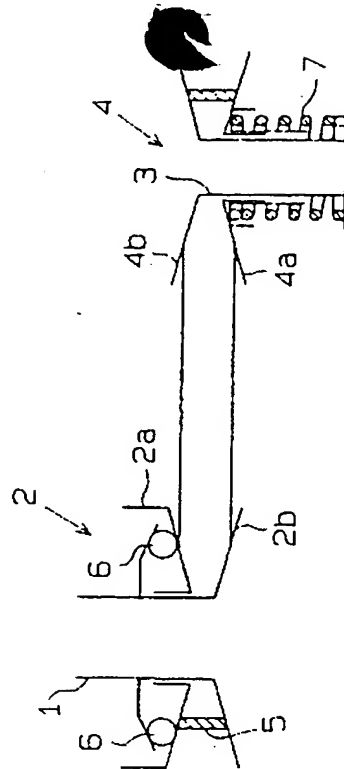
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APPLICATION NUMBER : 62169517

APPLICANT : TOYOTA AUTOM LOOM WORKS LTD;

INVENTOR : HIYOUGO TAKASHI;

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TITLE : PULLEY OF SPEED CHANGER WITH  
V-BELT



ABSTRACT : PURPOSE: To suppress abrupt increase of the number of revolutions of a follower pulley at the time of acceleration by providing a driving pulley in such an arrangement that the degree of widening on the outer side in radial direction from the contact position with a V-belt at the time of constant speed is greater than the degree on the inner side.

CONSTITUTION: The device of this invention works in the same manner as any conventional arrangement till the speed change ratio reaches one, i.e. until both speeds are equalized. The form of a driving pulley 2 in contact with a V-belt 5 is such that the degree of widening is greater than a conventional arrangement at the time of acceleration in a range the speed change ratio exceeds one, so that the rate of increment in the radius of rotation of the V-belt 5 will decrease even in case a movable pulley 2a of the driving pulley 2 has moved toward the stationary pulley 2b in the same amount. In response thereto the rate of decrement in the radius of rotation of the V-belt 5 on the follower side will decrease. Accordingly the rate of increment of the revolving speed of the follower side at the time of acceleration will decrease and increase is made at a contact rate from deceleration via equal speed running to acceleration.

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